

PROJECT WET - Alignment with Maryland Voluntary State Curriculum Grades 6-8ⁱ

AFTER MATH – GRADES 6-8; PAGE 289

BY CALCULATING ECONOMIC LOSS FROM FLOODING IN A SPECIFIC AREA, STUDENTS INVESTIGATE HOW PEOPLE ARE AFFECTED BY FLOODS AND OTHER WEATHER EVENTS.

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	<p>[potential exists to meet Grade 6 5.0 History: A. Individuals & Societies Change Over Time: 1. b. How/why early towns developed [flood zones].</p> <p>Grade 7</p> <p>3.0 Geography: B. Geographic Characteristics of Places & Regions: 1. b. environmental impacts;</p> <p>4.0 Economics: A. Scarcity & Economic Decision-making 2. Sustainable devt; 4. c. Factors that influenced economic development natural resources; pop. growth; public health issues.</p> <p>All Grades</p> <p>6.0 Social Studies Skills & Processes:</p> <p>A. Develop & apply social studies vocabulary: economic resources; environment; geographic characteristic, features, and tools; interest groups; natural hazards; natural resources; natural/physical features & characteristics; places; population distribution; settlement patterns; Smart Growth; sustainable development.</p>	None	None

AQUA BODIES – GRADES K-6; PAGE 63

STUDENTS TRACE THEIR BODIES & COLOR PORTIONS TO REPRESENT THE AMOUNT OF WATER THEIR BODIES CONTAIN, AND COMPARE THEIR RESULTS TO OTHER ORGANISMS.

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	None	<p>1.0 Skills & Processes: A. Constructing Knowledge; B. Applying Evidence and Reasoning; C. Communicate Scientific Information.</p> <p>[potential exists to meet: Grade 6 3.0 Life Science: D. Evolution: 1. Growth & survival of organisms depend on physical conditions [available water]; environmental changes [drought]].</p>	<p>6.0 Knowledge of Number Relationships & Computation: C. Number Computation: (add, subtract, multiply, divide).</p> <p>Grade 6 & 7: (calculate percent).</p> <p>7.0 Processes of Math</p> <p>A. Problem Solving; B. Reasoning; C. Communication; D. Connections: 1. Relate/apply math within the discipline, to other disciplines, & to life (a-d).</p>

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	<p>Grade 7 1.0 Political Science: A. Foundations & Functions of Govt: 3. Govt. roles: a-b (environ issues; pollution; conservation; energy sources); C. Protecting Rights & Maintaining Order: b. how rules & laws protect for the common good; 2.0 Peoples of the Nation & World: C. Conflict & Compromise 1. a. Acquiring natural resources; c. healthcare initiatives; 3.0 Geography: B. Geographic Characteristics of Places & Regions: 1. b. environ. impacts; C. Movement of People, Goods & Ideas: 1. c. regional pop. patterns/trends affect the environ. D. Modifying & Adapting to the Environ: 1. a-d (economic trade offs/consequences using natural resources; land use issues; how govt. addresses environ. issues); 4.0 Economics: A. Scarcity & Econ. Decision-making 1. Ltd. resources; 2. Sustainable devt; 4. c. Factors that influence econ. devt: natural resources; pop. growth; public health issues; B. Economic Systems & the Role of Govt 2. d. Impacts of regulatory agencies.</p> <p>Grade 8 1.0 Political Science: B. Individual & Group Participation: 2. c. Opportunities to participate in political process; 5.0 History: C. Conflict Between Ideas & Institutions 3. a. Changes in land & water use before 1877.</p> <p>All Grades 6.0 Social Studies Skills & Processes: A. Social studies vocab. Econ. resources; environ.; geographic characteristic, features, and tools; interest groups; natural hazards; natural resources; natural/physical features; pop. distrib.; scarcity; settlement patterns; Smart Growth; sustainable devt; urbanization; urban sprawl).</p>	<p>1.0 Skills & Processes: A. Constructing Knowledge; B. Applying Evidence and Reasoning; C. Communicate Scientific Information; D. Technology.</p> <p>Grade 6 6.0 Environmental Science A. Natural Resources and Human Needs. 1. How different parts of the world have varying amounts & types of natural resources & how the use of those resources impacts environmental quality (distribution of natural resources around the Earth; human impacts & solutions); B. Environmental Issues: 1. Human-caused changes have consequences for the immediate environment as well as for other places and future times (local issues impact other places; ecosystems can be impacted: and use decision, recycling, and waste disposal).</p> <p>Grade 7 6.0 Environmental Science A. Natural Resources and Human Needs. 1. Impacts of a changing human population on the use of natural resources and on environmental quality; B. Environmental Issues: 1. Environmental changes can have local, regional, & global consequences (ID stakeholders).</p> <p>Grade 8 6.0 Environmental Science: B. Environmental Issues: 1. How human activities can accelerate or magnify many naturally occurring changes.</p>	None

GREAT WATER JOURNEYS – GRADES 6-12; PAGE 246 - USING A GLOBAL MAP AND A SET OF CLUE CARDS, STUDENTS LOCATE SOME SIGNIFICANT WATER JOURNEYS.

Reading/English/Language Arts	Social Studies	Science	Mathematics
<p>4.0 Writing: 2. Compose oral, written, and visual presentations; e. write to learn strategies (journals; logs; drawings).</p> <p>6.0 Listening: Attend & respond to the speaker; asking questions; summarizing; following a set of directions.</p>	<p>Grade 6 2.0 Peoples of the Nation & World: B. Cultural Diffusion 2. World settlement patterns; 3.0 Geography: B. Geographic Characteristics of Places & Regions: a. world settlement patterns; c. human interactions w/environment; 5.0 History: A. Individuals & Societies Change Over Time: 1. b. Explain how/why towns & cities grew from early settlements.</p> <p>Grade 7 3.0 Geography: B. Geographic Characteristics of Places & Regions: 1. b. environmental impacts; C. Movement of People, Goods & Ideas: 1. b. consequences of world population settlement patterns; c. regional population patterns/trends affect the environment;</p> <p>Grades 7 & 8 3.0 Geography: A. Using Geographic Tools.</p>	None	None

IMAGINE! – GRADES 4-8; PAGE 157 - STUDENTS TAKE AN IMAGINARY JOURNEY WITH WATER IN ITS SOLID, LIQUID, & GASEOUS FORMS AS IT TRAVELS AROUND THE WORLD.

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	None	<p>4.0 Chemistry: C. States of Matter:</p> <p>Grade 6 1. Most substances can exist as a solid, liquid, or gas depending on temperature.</p> <p>Grade 8 1. Affect constant motion of atoms and molecules has on solids, liquids, and gases; 2.0 Earth & Space: E. Interactions of Hydrosphere and Atmosphere: 1. a. water cycle; b. distribution & circulation of water on Earth's surfaces.</p> <p>Grade 7</p> <p>3.0 Life Science: E. Flow of Matter and Energy: 1. How plants & animals meet the need to obtain and utilize food (cycles: - water-“In the flow of matter system the total amount of matter remains constant even though its form & location change.”)</p>	None

HUMPTY DUMPTY – GRADES 4-8; PAGE 316 -

STUDENTS RELATE THE CHALLENGES OF DOING ENVIRONMENTAL RESTORATION PROJECTS TO PIECING TOGETHER A SIMPLE PUZZLE.

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	<p>[potential exists to meet:</p> <p>Grade 6: 3.0 Geography: B. Geographic Characteristics of Places & Regions: c. human interactions with the environment; D. Modifying & Adapting to the Environment: 1. a & b (how early people modify the environment; how people responded to natural disasters).</p> <p>Grade 7: 1.0 Political Science: A. Foundations & Functions of Government: 3. Roles of governments regarding environ. issues a-b; 3.0 Geography: B. Geographic Characteristics of Places & Regions: 1.b. environmental impacts; C. Movement of People, Goods & Ideas: 1. b. consequences of world population settlement patterns; c. regional population patterns/trends affect the environment; D. Modifying & Adapting to the Environment: 1. a-d (economic trade offs when using natural resources; consequences; land use issues; how govt. addresses environ. issues); 4.0 Economics: A. Scarcity & Economic Decision-making: 2. Sustainable devt; B. Economic Systems & the Role of Government 2. d. Impacts of regulatory agencies (environmental protection).]</p> <p>All Grades</p> <p>6.0 Social Studies Skills & Processes:</p> <p>A. Learn to read & construct meaning (develop & apply social studies vocabulary. Relevant vocabulary includes: AmeriCorps; economic resources; environment; geographic characteristic, features, and tools; interest groups; natural hazards; natural resources; natural/physical features & characteristics; places; population distribution; production; scarcity; settlement patterns; Smart Growth; sustainable development; urbanization; urban sprawl).</p>	<p>1.0 Skills & Processes: A. Constructing Knowledge; B. Applying Evidence and Reasoning; C. Communicate Scientific Information; D. Technology.</p> <p>Grade 6</p> <p>6.0 Environmental Science: B. Environmental Issues:</p> <p>1. Human-caused changes have consequences for the immediate environment as well as for other places and future times.</p> <p>Grade 7</p> <p>6.0 Environmental Science: A. Natural Resources and Human Needs. 1. Impacts of a changing human population on the use of natural resources and on environmental quality; B. Environmental Issues: 1. Environmental changes can have local, regional, and global consequences (ID stakeholders).</p> <p>Grade 8</p> <p>6.0 Environmental Science: B. Environmental Issues: 1. How human activities can accelerate or magnify many naturally occurring changes.</p>	None

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	<p>Grade 6 4.0 Economics: A. Scarcity & Economic Decision-making: 3. How technological changes affect production & consumption.</p> <p>Grade 8 5.0 History: A. Individuals & Societies Change Over Time: C. Conflict Between Ideas & Institutions 3. a. Changes in land & water use, impacts on economy & settlement patterns before 1877.</p> <p>All Grades 6.0 Social Studies Skills & Processes: A. Develop & apply social studies vocabulary: environment; natural resources; scarcity; sustainable development).</p> <p>[potential exists to meet: Grade 6 - 3.0 Geography: D. Modifying & Adapting to the Environment: 1. a & b (how early people modify the environment); Grade 7 - 1.0 Political Science: A. Foundations & Functions of Government: 3. Roles of govts around the world regarding public issues (conservation); 2.0 Peoples of the Nation & World: C. Conflict & Compromise 1. a. Acquiring natural resources [water]; 3.0 Geography: C. Movement of People, Goods & Ideas: 1. b. consequences of world population settlement patterns [water resources; allocation]; c. regional population patterns/trends affect the environment; D. Modifying & Adapting to the Environment: 1. a-d (economic trade offs when using natural resources; consequences; land use issues; how govt. addresses environ. issues); 4.0 Economics: A. Scarcity & Economic Decision-making 1. Limited resources; 2. Sustainable devt; 4. Specialization c. Factors that influenced economic development such as natural resources].</p>	<p>1.0 Skills & Processes: A. Constructing Knowledge; B. Applying Evidence and Reasoning; C. Communicate Scientific Information; D. Technology.</p> <p>Grade 6 6.0 Environmental Science A. Natural Resources and Human Needs. 1. How different parts of the world have varying amounts & types of natural resources & how the use of those resources impacts environmental quality (distribution of natural resources around the Earth; human impacts & solutions); B. Environmental Issues: 1. Human-caused changes have consequences for the immediate environment as well as for other places and future times (local issues impact other places; ecosystems can be impacted: and use decision, recycling, and waste disposal).</p> <p>Grade 7 6.0 Environmental Science A. Natural Resources and Human Needs. 1. Impacts of a changing human population on the use of natural resources and on environmental quality; B. Environmental Issues: 1. Environmental changes can have local, regional, and global consequences (ID stakeholders).</p> <p>Grade 8 6.0 Environmental Science: B. Environmental Issues: 1. How human activities can accelerate or magnify many naturally occurring changes.</p>	<p>3.0 Knowledge of Measurement: C. Application of Measurement: 1. Apply Measurement Concepts: Grade 6-8: calculate volume.</p> <p>7.0 Processes of Math A. Problem Solving; B. Reasoning; C. Communication; D. Connections: 1. Relate or apply mathematics within the discipline, to other disciplines, & to life (a-d).</p>

MACROINVERTEBRATE MAYHEM – GRADES 4-8; PAGE 322

STUDENTS PLAY A GAME OF TAG TO SIMULATE THE EFFECTS OF ENVIRONMENTAL STRESSORS ON MACROINVERTEBRATE POPULATIONS.

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	1.0 Skills & Processes: A. Constructing Knowledge; B. Applying Evidence and Reasoning; C. Communicate Scientific Information; D. Technology. Grade 6 3.0 Life Science: D. Evolution: 1. Growth & survival of organisms & species depend on physical conditions (competition for resources; environment-al changes); 3.0 Life Science: F. Ecology: 1. Number of organisms an environment can support depends on physical conditions, resources available: a. populations increase or decrease relative to availability of resources & environ. conditions; b. limiting factors; c. competition for resources; d. niches reduce competition; 6.0 Environmental Science B. Environ. Issues: 1. Human-caused changes have consequences for the immediate environ. & for other places & future times. Grade 7 6.0 Environmental Science A. Natural Resources and Human Needs. 1. Impacts of a changing human population on the use of natural resources and on environmental quality; B. Environmental Issues: 1. Environmental changes can have local, regional, and global consequences (ID stakeholders). Grade 8 6.0 Environmental Science: B. Environmental Issues: 1. Human activities can accelerate or magnify many naturally occurring changes. [potential exists to meet Grade 7 - 3.0 Life Science: A. Diversity of Life: 1. Features of organisms connect or differentiate them (external & internal features/behavioral pattern; classification)]	None	None

PASS THE JUG – GRADES 6-8; 392 - STUDENTS SIMULATE & ANALYZE DIFFERENT WATER RIGHTS POLICIES TO LEARN HOW WATER AVAILABILITY & PEOPLE’S PROXIMITY TO THE RESOURCE INFLUENCE HOW WATER IS ALLOCATED.

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	<p>Grade 6 3.0 Geography: B. Characteristics of Places/Regions: a. world settlement patterns; c. human interactions w/environ; D. Modifying/Adapting to the Environ: 1. a & b (early people modify the environ.). 4.0 Economics: A. Scarcity & Econ. Decision-making 1. Early peoples’ choices about resources.</p> <p>Grade 7 - 2.0 Peoples of the Nation & World: C. Conflict & Compromise 1. a. Acquiring natural resources; c. healthcare initiatives; 3.0 Geography: B. Geog. Characteristics of Places & Regions: 1. b. environmental impacts; C. Movement of People, Goods/Ideas: 1. c. regional pop. patterns/trends affect the environ.; D. Modifying & Adapting to the Environ: 1. a-d (econ. trade offs of using natural resources; consequences; land use issues; how govt. addresses env. issues); 4.0 Economics: A. Scarcity & Econ. Decision-making 1. Limited resources; 2. Sustainable devt; 4. Specialization c. Factors influencing econ. devt: natural resources; pop. growth; public health issues.</p> <p>Grades 7 & 8 3.0 Geography: A. Using Geographic Tools.</p> <p>Grade 8 - 5.0 History: C. Conflict Between Ideas & Institutions 3. a. Changes in land & water use, impacts on economy/settlement patterns before 1877.</p> <p>All Grades 6.0 Social Studies Skills & Processes: A. Social studies vocab: econ. resources; environment; geographic characteristics/ & tools; interest groups; natural hazards; natural resources; natural/physical features. pop. distrib; scarcity; settlement patterns; Smart Growth; sustainable devt).</p>	<p>Grade 6 6.0 Environmental Science A. Natural Resources and Human Needs. 1. How different parts of the world have varying amounts & types of natural resources & how the use of those resources impacts environmental quality; B. Environmental Issues: 1. Human-caused changes have consequences for the immediate environment as well as for other places and future times.</p> <p>Grade 7 6.0 Environmental Science A. Natural Resources and Human Needs. 1. Impacts of a changing human population on the use of natural resources and on environmental quality; B. Environmental Issues: 1. Environmental changes can have local, regional, and global consequences (ID stakeholders).</p> <p>Grade 8 6.0 Environmental Science: B. Environmental Issues: 1. How human activities can accelerate or magnify many naturally occurring changes.</p>	None

RAINING CATS AND DOGS – GRADES 4-8; PAGE 435

STUDENTS ANALYZE AND INTERPRET WATER SAYINGS – THROUGH A CARD GAME, SKITS, PANATOMINE, AND CREATIVE WRITING – TO COMPARE FIGURES OF SPEECH ACROSS CULTURES AND CLIMATE ZONES.

Reading/English/Language Arts	Social Studies	Science	Mathematics
3.0 Comprehension of literary text: 4: Use elements of poetry to facilitate understanding.	[potential exists to meet Grade 6 3.0 Geography: B. Geographic Characteristics of Places & Regions: a. world settlement patterns; c. human interactions w/environment Grades 7 & 8 3.0 Geography: A. Using Geog. Tools.].	None	None

SUPER BOWL SURGE – GRADES 4-12; PAGE 353

STUDENTS DO IN-DEPTH RESEARCH AND PRESENT ACTION PLANS TO SOLVE THE PROBLEM OF INCREASED DEMANDS ON A COMMUNITY'S WASTEWATER TREATMENT PLANT.

Reading/English/Language Arts	Social Studies	Science	Mathematics
1.0 General Reading Processes: Vocabulary D. Vocabulary. Develop & apply vocabulary via a variety of texts. 4.0 Writing: 2. Compose oral, written, and visual presentations); 7. Locate, retrieve, & use info. from various sources. 6.0 Listening: Attend & respond to the speaker; asking questions; summarizing; following a set of directions. 7.0 Speaking: Plan & deliver oral presentations; use props.	Grade 7 1.0 Political Science: A. Foundations & Functions of Govt: 3. Roles of govt around the world regarding public issues a-b (environ. issues; pollution; conservation); 3.0 Geography: B. Geog. Characteristics of Places & Regions: 1. b. environmental impacts; C. Movement of People, Goods & Ideas: 1. c. regional population patterns/trends affect the environment; D. Modifying & Adapting to the Environment: 1. a-d (economic trade offs when using natural resources; consequences; land use issues; how govt. addresses environ. issues); 4.0 Economics: A. Scarcity & Economic Decision-making 1. Limited resources; 2. Sustainable devt; 4. Specialization c. Factors that influenced economic development such as natural resources; pop. growth; public health issues; B. Economic Systems & the Role of Government 2. d. Impacts of regulatory agencies (environmental protection). All Grades 6.0 Social Studies Skills & Processes: A. Develop & apply social studies vocabulary: environ. interest groups; natural hazards; natural resources; pop. dist.; Smart Growth; sustainable development; urbanization; urban sprawl).	1.0 Skills & Processes: A. Constructing Knowledge; B. Applying Evidence and Reasoning; C. Communicate Scientific Information; D. Technology. Grade 6 6.0 Environmental Science B. Environmental Issues: 1. Human-caused changes have consequences for the immediate environment as well as for other places and future times (waste disposal). Grade 7 6.0 Environmental Science A. Natural Resources and Human Needs. 1. Impacts of a changing human population on the use of natural resources and on environmental quality; B. Environmental Issues: 1. Environmental changes can have local, regional, and global consequences (ID stakeholders). Grade 8 6.0 Environmental Science: B. Environmental Issues: 1. How human activities can accelerate or magnify many naturally occurring changes.	None

WATER ADDRESS – GRADES 4-8; PAGE 122

STUDENTS IDENTIFY PLANTS & ANIMALS & THEIR HABITATS BY ANALYZING CLUES THAT DESCRIBE WATER-RELATED ADAPTATIONS OF AQUATIC & TERRESTRIAL ORGANISMS.

Reading/English/Language Arts	Social Studies	Science	Mathematics
4.0 Writing: 2. Compose oral, written, and visual presentations; e. write to learn strategies (journals; logs; drawings) – <i>with Extension portion only.</i>	<p>[potential exists to meet Grades 7 & 8</p> <p>3.0 Geography: A. Using Geographic Tools.]</p>	<p>1.0 Skills & Processes: A. Constructing Knowledge; B. Applying Evidence and Reasoning.</p> <p>Grade 6</p> <p>3.0 Life Science: D. Evolution: 1. Growth & survival of organisms & species depend on physical conditions; F. Ecology: 1. The number of organisms an environment can support depends on the physical conditions and resources available: a.-d.</p> <p>Grade 7</p> <p>3.0 Life Science: A. Diversity of Life: 1. Features of organisms connect or differentiate them (classification); E. Flow of Matter and Energy: 1. How plants & animals meet the need to obtain and utilize food & water.</p> <p>Grade 8</p> <p>3.0 Life Science: D. Evolution: 1. Evolutionary change in species is a result of natural variation in organisms and environ. changes. (adaptations; diversity).</p>	<p>None</p>

WATER CROSSINGS – GRADES 4-12; PAGE 421

STUDENTS PARTICIPATE IN A WATER-CROSSING CONTEST IN WHICH THEY MUST MOVE THEIR POSSESSIONS (A HARD-BOILED EGG) ACROSS A SPAN OF WATER (A CAKE PAN).

Reading/English/Language Arts	Social Studies	Science	Mathematics
<p>1.0 General Reading Processes: Vocabulary D. Vocabulary. Develop & apply vocabulary via a variety of texts.</p> <p>4.0 Writing: 2. Compose oral, written, and visual presentations; e. write to learn strategies (journals; logs; drawings).</p>	<p>Grade 6</p> <p>2.0 Peoples of the Nation & World: B. Cultural Diffusion 2. World settlement patterns; 3.0 Geography: B. Geographic Characteristics of Places & Regions: a. world settlement patterns; c. human interactions w/environment; D. Modifying & Adapting to the Environment: 1. a & b (how early people modify the environment; how people responded to natural disasters).</p> <p>Grades 7 & 8</p> <p>3.0 Geography: A. Using Geographic Tools.</p>	<p>None</p>	<p>None</p>

WHAT'S THE SOLUTION? – GRADES 6-8; PAGE 54 - WHILE INVESTIGATING THE DISSOLVING POWER OF WATER, STUDENTS SOLVE A CRIME.

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	None	1.0 Skills & Processes: A. Constructing Knowledge; B. Applying Evidence and Reasoning; C. Communicate Scientific Information; D. Technology. Grade 6 4.0 Chemistry: C. States of Matter: 1. Most substances can exist as a solid, liquid, or gas depending on temperature; D. Physical & Chemical Changes: 1. Some substances can be separated into the original substances from which they were made: a. classify mixtures using observable /measurable properties (e.g., solubility in water). Grade 8 4.0 Chemistry: C. States of Matter: 1. Affect constant motion of atoms and molecules has on solids, liquids, and gases; D. Physical & Chemical Changes: 1. Compare compounds & mixtures: a. how components of mixtures can be separated; b. why components of compounds cannot be separated using physical properties; 3. Common substances have the ability to change into new substances: b. factors that influence rate of reaction (temp; acidity).	None

COMMON WATER – GRADES 3-8 (K-2); PAGE 232

STUDENTS ANALYZE THE RESULTS OF A SIMULATION TO UNDERSTAND THAT WATER IS A SHARED RESOURCE AND IS MANAGED.

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	Grade 6 3.0 Geography: B. Geog. Characteristics of Places & Regions: a. world settlement patterns; c. human interactions w/environment; D. Modifying & Adapting to the Environment: 1. a & b (how early people modify the environment); 4.0 Economics: A. Scarcity & Economic Decision-making: 3. How technological changes affect production/consumption; 5.0 History: A. Individuals & Societies Change Over Time: 1. b. How/why	1.0 Skills & Processes: A. Constructing Knowledge; B. Applying Evidence and Reasoning; C. Communicate Scientific Information; D. Technology. Grade 6 6.0 Environmental Science: A. Natural Resources and Human Needs. 1. How different parts of the world have varying amounts & types of natural resources & how the use of those resources impacts environmental quality (distribution of natural resources around the Earth; human impacts & solutions);	None

towns & cities grew from early settlements.

Grade 7 2.0 Peoples of the Nation & World: C. Conflict & Compromise 1. a. Acquisition of natural resources; **4.0 Economics: A. Scarcity & Economic Decision-making 1.** Limited resources; **2.** Sustainable devt; **3.** Technological changes affect production/consumption; **3.0 Geography: B. Characteristics of Places & Regions: 1. b.** environmental impacts; **C. Movement of People, Goods & Ideas: 1. b.** consequences of world population settlement patterns; c. regional population patterns/trends affect the environment; **D. Modifying & Adapting to the Environment: 1.** a-d (economic trade offs when using natural resources; consequences; land use issues; how govt. addresses env. issues); **4.0 Economics: A. Scarcity & Economic Decision-making 1.** Limited resources; **2.** Sustainable devt; **3.** Technological changes affect production/consumption; c. Factors that influenced economic development such as natural resources; pop. growth; public health issues; [potential exists to meet **B. Economic Systems & the Role of Government 2.** d. Impacts of regulatory agencies (environmental protection)].

Grade 8 5.0 History: A. Individuals & Societies Change Over Time: C. Conflict Between Ideas & Institutions 3. a. Changes in land & water use, impacts on economy & settlement patterns before 1877.

All Grades 6.0 Social Studies Skills & Processes: A. Develop & apply social studies vocabulary: economic resources; environment; interest groups; natural resources; population distribution; production; scarcity; settlement patterns; Smart Growth; sustainable development).

B. Environmental Issues: 1. Human-caused changes have consequences for the immediate environment as well as for other places and future times (local issues impact other places; ecosystems can be impacted: and use decision, recycling, and waste disposal).

Grade 7 6.0 Environmental Science: A. Natural Resources and Human Needs. 1. Impacts of a changing human population on the use of natural resources and on environmental quality; **B. Environmental Issues: 1.** Environmental changes can have local, regional, and global consequences (ID stakeholders).

Grade 8 6.0 Environmental Science: B. Environmental Issues: 1. How human activities can accelerate or magnify many naturally occurring changes; [potential exists to meet **Grade 8 2.0 Earth & Space: E. Interactions of Hydrosphere and Atmosphere: 1. a.** water cycle].

MONEY DOWN THE DRAIN – GRADES 3-8; PAGE 328

THROUGH OBSERVATION AND SIMPLE CALCULATIONS, STUDENTS LEARN THAT A DRIPPING FAUCET WASTS A VALUABLE RESOURCE.

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	<p>Grade 6 4.0 Economics: A. Scarcity & Economic Decision-making: 3. How technological changes affect production & consumption.</p> <p>Grade 7 4.0 Economics: A. Scarcity & Economic Decision-making 1. Limited resources; 2. Sustainable devt; 3. Technological changes affect production & consumption.</p>	<p>1.0 Skills & Processes: A. Constructing Knowledge; B. Applying Evidence and Reasoning; C. Communicate Scientific Information; D. Technology.</p> <p>Grade 6 6.0 Environmental Science: A. Natural Resources and Human Needs. 1. How different parts of the world have varying amounts & types of natural resources & how the use of those resources impacts environmental quality (distribution of natural resources around the Earth; human impacts & solutions); B. Environmental Issues: 1. Human-caused changes have consequences for the immediate environment as well as for other places and future times (local issues impact other places; ecosystems can be impacted: and use decision, recycling, and waste disposal).</p> <p>Grade 7 6.0 Environmental Science: A. Natural Resources and Human Needs. 1. Impacts of a changing human population on the use of natural resources and on environmental quality.</p> <p>Grade 8 6.0 Environmental Science: B. Environmental Issues: 1. How human activities can accelerate or magnify many naturally occurring changes.</p>	<p>3.0 Knowledge of Measurement: C. Application of Measurement: 1. Apply Measurement Concepts: Grade 6: b. volume. Grade 7: d. volume. Grade 8: c. volume.</p> <p>Grade 6 & 7 4.0 Knowledge of Statistics B. Data Analysis. 2. Describe a set of data: a. mean, median, mode, range.</p> <p>7.0 Processes of Math A. Problem Solving; B. Reasoning; C. Communication; D. Connections: 1. Relate or apply math to other disciplines, & to life (a-d).</p>

WHERE'S THE FROGS? – GRADES 6-8; PAGE 279

THROUGH EXPERIMENTATION AND A SIMULATION, STUDENTS LEARN HOW ACIDIC WATER HAS ENDANGERED THE QUALITY OF AQUATIC LIFE IN SOME PARTS OF THE COUNTRY.

Reading/English/Language Arts	Social Studies	Science	Mathematics
None	<p>[potential exists to meet Grade 7</p> <p>1.0 Political Science: A. Foundations & Functions of Government: 3. Roles of governments around the world regarding public issues a-b (environmental issues; pollution; conservation; energy sources); 3.0 Geography: B. Geographic Characteristics of Places & Regions: 1. b. environmental impacts; C. Movement of People, Goods & Ideas: 1. c. regional population patterns/trends affect the environment; D. Modifying & Adapting to the Environment: 1. a-d (economic trade offs when using natural resources; consequences; land use issues; how govt. addresses env. issues); 4.0 Economics: A. Scarcity & Economic Decision-making: 2. Sustainable devt; B. Economic Systems & the Role of Government 2. d. Impacts of regulatory agencies (environmental protection); All Grades - 6.0 Social Studies Skills & Processes: A. Learn to read & construct meaning (develop & apply social studies vocabulary. Relevant vocabulary includes: environment interest groups; natural hazards; natural resources; natural/physical features & characteristics; places; population distribution; sustainable development).</p>	<p>1.0 Skills & Processes: A. Constructing Knowledge; B. Applying Evidence and Reasoning; C. Communicate Scientific Information; D. Technology.</p> <p>Grade 6</p> <p>3.0 Life Science: D. Evolution: 1. Growth & survival of organisms & species depend on physical conditions; F. Ecology: 1. Number of organisms an environ. can support depends on physical conditions & resources available; 6.0 Environmental Science: B. Environ Issues: 1. Human-caused changes have consequences for the immediate environ. & for other places & future times (ecosystems can be impacted).</p> <p>Grade 7</p> <p>6.0 Environmental Science</p> <p>A. Natural Resources and Human Needs. 1. Impacts of a changing human population on environmental quality.</p> <p>Grade 8</p> <p>3.0 Life Science: D. Evolution: 1. Evolutionary change in species is a result of natural variation in organisms and environ changes (gradual & sudden environ changes; adaptations; extinction; species diversity); 4.0 Chemistry: D. Physical & Chemical Changes: 2. b. classify materials as acidic, basic, or neutral using the pH scale; 6.0 Environmental Science: B. Environ Issues: 1. How human activities can accelerate or magnify many naturally occurring changes.</p>	None

ⁱ Activities meet standards as noted. When a standard is listed without notation, the activity meets the standard fully. If no grades are notes, the activity meets the standard for all grades indicated by the activity.